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Please replace the paragraph which appears on page 2, line 7 and ends on line 12, with the following rewritten paragraph:

The spring stiffness of the overload membrane is generally symmetric in the HP and LP directions. The overload factor of the measuring element is clearly different between HP and LP loading. The design of the symmetrical overload membrane depends on the lower burst value of the measuring element, a factor which unnecessarily increases the time constant of the high-pressure side of the pressure difference transducer. ~~It is, therefore, an object of the invention to provide a pressure difference transducer which overcomes the described disadvantages.~~

On page 2, after the first full paragraph, which ends on line 13, please insert the following new paragraph:

SUMMARY OF THE INVENTION

It is, therefore, an object of the invention to provide a pressure difference transducer which overcomes the described disadvantages.

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Please replace the two paragraphs which appear on page 2, beginning at line 13 and ending on page 3, line 2, with the following single rewritten paragraph:

This object is achieved by ~~[[the]]~~ a pressure transducer ~~as defined in the independent claim 1 which~~ The pressure difference transducer of the invention includes a hydraulic body, in which an overload chamber containing an overload membrane is constructed. The overload membrane divides the overload chamber into a high-pressure chamber portion and a low-pressure chamber portion. The high-pressure chamber portion communicates with a first hydraulic path, which extends between a diaphragm seal and the high-pressure side of a pressure measuring element, and the low-pressure chamber portion communicates with a second hydraulic path, which extends between a second diaphragm seal and the low-pressure side of a pressure measuring cell. The pressure difference transducer of the invention is characterized in that the low-pressure chamber portion has an essentially convex membrane bed, on